

GenCore version 5.1.4.p5 4578  
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OM protein - protein search, using sw model

Run on: March 17, 2003, 08:48:26 ; Search time 17 Seconds  
(without alignments)  
1346.531 Million cell updates/sec

Title: US-10-010-227-3  
Perfect score: 4055  
Sequence: 1 MGAESTPQTLVYKVLQAHV.....KAVPVPTNRGEKEKPLEW 778

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 100 summaries

Database : Issued Patents\_AA:\*  
1: /cgn2\_6/ptodata/2/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/ptodata/2/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/ptodata/2/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/ptodata/2/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/ptodata/2/1aa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/ptodata/2/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1300	32.1	461	US-09-134-001C-3892	Sequence 3892, Ap
2	1141.5	28.2	460	US-08-403-866-3	Sequence 3, Appl
3	749	18.5	264	US-08-936-165A-477	Sequence 477, App
4	635	15.7	424	US-09-173-300-45	Sequence 45, Appl
5	528.5	13.0	428	US-09-173-300-36	Sequence 36, Appl
6	523.5	12.9	443	US-09-173-300-38	Sequence 38, Appl
7	493	11.2	173	US-08-936-165A-476	Sequence 476, App
8	482.5	11.9	191	US-08-403-866-4	Sequence 4, Appl
9	481.5	11.9	780	US-08-887-798-2	Sequence 2, Appl
10	396	9.8	189	US-09-134-001C-3886	Sequence 3886, Ap
11	364.5	9.0	914	US-09-134-001C-5208	Sequence 5208, Ap
12	250	6.2	127	US-09-173-300-40	Sequence 40, Appl
13	239	5.9	119	US-08-858-207A-388	Sequence 388, App
14	209	5.2	263	US-09-173-300-51	Sequence 51, Appl
15	208.5	5.1	195	US-09-173-300-42	Sequence 42, Appl
16	196.5	4.8	244	US-09-173-300-47	Sequence 47, Appl
17	195.5	4.8	244	US-09-173-300-53	Sequence 53, Appl
18	187	4.6	257	US-09-173-300-49	Sequence 49, Appl
19	137.5	3.4	126	US-09-173-300-44	Sequence 44, Appl
20	131.5	3.2	241	US-09-268-347-36	Sequence 36, Appl
21	124.5	3.1	1912	US-08-409-995-4	Sequence 4, Appl
22	124.5	3.1	1912	US-08-685-467-4	Sequence 4, Appl
23	122.5	3.0	2353	US-09-377-155-33	Sequence 33, Appl
24	122.5	3.0	2353	US-08-913-942-4	Sequence 4, Appl
25	122.5	3.0	2353	US-09-669-974-33	Sequence 33, Appl
26	122.5	3.0	2354	US-09-268-347-47	Sequence 47, Appl
27	118	2.9	1477	US-09-206-942-71	Sequence 71, Appl

28	115	2.8	823	US-08-481-435-4	Sequence 4, Appl
29	115	2.8	4551	US-09-320-878-1	Sequence 1, Appl
30	115	2.8	4613	US-09-105-537-31	Sequence 31, Appl
31	115	2.8	11877	US-09-105-537-6	Sequence 6, Appl
32	114	2.8	836	US-08-481-435-9	Sequence 9, Appl
33	114	2.8	2647	US-08-583-562B-8	Sequence 8, Appl
34	114	2.8	2647	US-08-779-113-8	Sequence 8, Appl
35	112	2.8	595	US-08-232-087A-2	Sequence 2, Appl
36	112	2.8	595	US-09-006-353A-9	Sequence 9, Appl
37	112	2.8	595	US-09-573-986-9	Sequence 9, Appl
38	112	2.8	844	US-08-481-435-7	Sequence 7, Appl
39	111.5	2.7	3052	US-08-557-122A-26	Sequence 26, Appl
40	111.5	2.7	3052	US-09-262-666-26	Sequence 26, Appl
41	111	2.7	844	US-08-481-435-8	Sequence 8, Appl
42	111	2.7	1861	US-08-790-912-4	Sequence 4, Appl
43	109	2.7	595	US-08-225-989-2	Sequence 2, Appl
44	109	2.7	595	US-08-570-923-2	Sequence 2, Appl
45	109	2.7	595	US-08-580-014-2	Sequence 2, Appl
46	109	2.7	595	US-09-079-785-2	Sequence 2, Appl
47	108	2.7	1477	US-08-038-682-4	Sequence 4, Appl
48	108	2.7	1477	US-08-302-832-4	Sequence 4, Appl
49	108	2.7	1477	US-08-530-198-4	Sequence 4, Appl
50	108	2.7	1477	US-08-469-880-4	Sequence 4, Appl
51	108	2.7	1477	US-08-728-470-4	Sequence 4, Appl
52	108	2.7	1477	US-08-617-697-4	Sequence 4, Appl
53	108	2.7	1477	US-08-719-641-4	Sequence 4, Appl
54	106.5	2.6	1150	US-08-589-756-3	Sequence 3, Appl
55	106.5	2.6	1150	US-09-206-800-3	Sequence 3, Appl
56	106.5	2.6	1150	US-09-206-898-3	Sequence 3, Appl
57	106.5	2.6	1167	US-08-589-756-2	Sequence 2, Appl
58	106.5	2.6	1167	US-09-206-800-2	Sequence 2, Appl
59	106.5	2.6	1167	US-09-206-898-2	Sequence 2, Appl
60	106	2.6	1841	US-08-804-227C-6	Sequence 6, Appl
61	106	2.6	3248	US-08-353-700-1	Sequence 1, Appl
62	106	2.6	3248	PCT-US95-16216-1	Sequence 2, Appl
63	106	2.6	5215	US-09-105-537-2	Sequence 2, Appl
64	105.5	2.6	1599	US-08-617-697-9	Sequence 9, Appl
65	104	2.6	921	US-09-206-800-10	Sequence 10, Appl
66	104	2.6	1638	US-09-071-035-258	Sequence 258, App
67	104	2.6	1638	US-09-071-035-262	Sequence 262, App
68	104	2.6	1638	US-09-071-035-266	Sequence 266, App
69	103.5	2.6	1181	US-09-206-898-23	Sequence 23, Appl
70	103.5	2.6	1376	US-08-420-235B-3	Sequence 3, Appl
71	103.5	2.6	1376	US-08-793-624-3	Sequence 3, Appl
72	103.5	2.6	1376	PCT-US95-10194-3	Sequence 3, Appl
73	102	2.5	921	US-09-206-800-11	Sequence 11, Appl
74	102	2.5	1786	US-08-973-462-8	Sequence 8, Appl
75	101	2.5	409	US-09-134-001C-3790	Sequence 3790, Ap
76	101	2.5	2048	US-09-268-347-48	Sequence 48, Appl
77	100.5	2.5	878	US-08-653-648A-15	Sequence 15, Appl
78	100.5	2.5	1074	US-09-071-035-358	Sequence 358, App
79	100.5	2.5	1074	US-09-071-035-394	Sequence 394, App
80	100	2.5	917	US-08-588-983-16	Sequence 16, Appl
81	100	2.5	917	US-08-588-976-16	Sequence 16, Appl
82	100	2.5	3782	US-09-105-537-4	Sequence 4, Appl
83	99	2.4	553	US-09-504-356-6	Sequence 6, Appl
84	99	2.4	553	US-09-954-314-6	Sequence 6, Appl
85	99	2.4	753	US-08-712-241-2	Sequence 2, Appl
86	99	2.4	999	US-08-770-301A-1	Sequence 1, Appl
87	99	2.4	999	US-09-175-581-1	Sequence 1, Appl
88	99	2.4	2037	US-09-306-998-3	Sequence 3, Appl
89	98.5	2.4	3491	US-07-642-793C-2	Sequence 2, Appl
90	98.5	2.4	3491	US-08-439-009A-2	Sequence 2, Appl
91	97.5	2.4	994	US-08-699-103B-3	Sequence 3, Appl
92	97.5	2.4	994	US-09-229-059-3	Sequence 3, Appl
93	97.5	2.4	1125	US-09-513-783A-152	Sequence 152, App
94	97.5	2.4	1510	US-08-471-119A-2	Sequence 22, Appl
95	97.5	2.4	1581	US-08-621-944A-4	Sequence 4, Appl
96	97	2.4	1833	US-08-945-567D-4	Sequence 4, Appl
97	97	2.4	1833	US-08-621-944A-3	Sequence 3, Appl
98	97	2.4	1992	US-08-945-567D-3	Sequence 3, Appl
99	96.5	2.4	516	US-09-147-009-2	Sequence 2, Appl
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ALIGNMENTS
      1
US-09-134-001C-3892
; Sequence 3892, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 3892
; LENGTH: 461
; TYPE: PRT
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-3892

Query Match          32.1%; Score 1300; DB 4; Length 461;
Best Local Similarity 54.7%; Pred. No. 2.7e-121;
Matches 258; Conservative 69; Mismatches 125; Indels 20; Gaps 5;

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Qy 9 QTLVDKVLQAAHVDEKLDGTVLLYLDRLHIVHEVTSQPAFEGRLNAGRKVRRDCTLATTD 68
Db 8 QTLFDKVKWKGHLHGKEGEPOLLYIDLHLIHEVTSQPAFEGRLIQRKLRRLDPLTFATLD 67
Qy 69 HNVPTTSRKALKDIASFIKEDDSRTCQCVLTLEENVKEFGVTVFGLSDKQKQGIHVHVCPQEG 128
Db 68 HNVPTI-----DIFN-1KDEIAHKQITTLQONAKDFGWHIFDMGSDDEQGIHVWVGPETG 120
Qy 129 FTLPGTIVVCGDSHTSHGAFGALAFGTTGSEVHVHLATQCLITKRSKNMIRIOVDGELAP 188
Db 121 LTQPGKITVCGDSHTATHGAFATFGTGTSEVHVVFATQTLWQTKPNKLNININGSLPT 180
Qy 189 GVSSKDVVLHAIGITAGGTGCAVIEFCGSIWRSLSMEARMSICNWSIEGGARAGWAPD 248
Db 181 GVAKDIILYLINGVDFDGTGTYALEFTGETIKNLSMEARMTICNWAIEAGAKYGLMQPD 240
Qy 249 EITFEYLKGRPLAPKYDUSPEWHKATQYKNIQSDPGAKYDIDVFDIAKDI VPTLTWTGTS P 308
Db 241 ETTFDYVYKGRPYATDFDS-----SNAAWKKYLSDDDAYFDVKVIELDVNLNPEQVWTG TNP 295
Qy 309 EDVVPITGVVPDPDTFATEAKKAQRRMLQWMLKAGTPEMEDI PVDKVFIQSGTNSRIED 368
Db 296 EMGVSFNPF-----EIKNANDQRAYDWGLHPGQKAEDIKLYVFLGSCTNARLSD 348
Qy 369 LRAAAVVKGRKKAPNKSAMVVPGSLVTKTQAAEEGLDKDIFEEAGFEWRBAGCSMCLGM 428
Db 349 LIEASHI1KGGQQVHPNI-TATVWPGSRVTVKEAEALGLDKLFDKQAGFEWRBPGCSMCLGM 407
Qy 429 NPDLTAPQERCASNTSRNFEGRQAGGRRTHLMSPVMAAAAGIVGKLADVRLK 480
Db 408 NPDOVPGVHCASNTSRNFEGRQKRGARTHLSVMAAAAAAINGKFIDVRKV 459

RESULT 2
US-08-403-866-3
; Sequence 3, Application US/08403866
; Patent No. 5643779
; GENERAL INFORMATION:
; APPLICANT: Erlich, Stanislaw
; APPLICANT: Godon, Jean-Jacques
; APPLICANT: Renault, Pierre
; TITLE OF INVENTION: Nucleic acid coding for an alpha-acetolactate

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/ APPLICANT: Black, Michael
/ APPLICANT: Burnham, Martin
/ APPLICANT: Hodgson, John
/ APPLICANT: Knowles, David
/ APPLICANT: Lonetto, Michael
/ APPLICANT: Nicholas, Richard
/ APPLICANT: Pirat, Julie
/ APPLICANT: Reichard, Richard
/ APPLICANT: Rosenberg, Martin
/ APPLICANT: Ward, Judith
/ TITLE OF INVENTION: No. 6348582e1 Prokaryotic Polynucleotides,
/ Polypeptides and Their Uses
/ NUMBER OF SEQUENCES: 534
/ CORRESPONDENCE ADDRESS:
/ ADDRESSEE: SmithKline Beecham Corporation
/ STREET: 709 Swedeland Road
/ CITY: King of Prussia
/ STATE: PA
/ COUNTRY: USA
/ ZIP: 19406-0939
/ COMPUTER READABLE FORM:
/ MEDIUM TYPE: Diskette
/ OPERATING SYSTEM: DOS
/ SOFTWARE: FastSeq for Windows Version 2.0
/ CURRENT APPLICATION DATA:
/ APPLICATION NUMBER: US/08/936,165A
/ FILING DATE: 24-SEP-1997
/ CLASSIFICATION: 536
/ PRIOR APPLICATION DATA:
/ APPLICATION NUMBER: 60/027,032
/ FILING DATE: 24-SEP-1996
/ ATTORNEY/AGENT INFORMATION:
/ NAME: Gimm, Edward R
/ REGISTRATION NUMBER: 38,891
/ REFERENCE/DOCKET NUMBER: P50549
/ TELECOMMUNICATION INFORMATION:
/ TELEPHONE: 610-270-4478
/ TELEFAX: 610-270-5090
/ TELEX:
/ INFORMATION FOR SEQ ID NO: 477:
/ SEQUENCE CHARACTERISTICS:
/ LENGTH: 264 amino acids
/ TYPE: amino acid
/ STRANDEDNESS: single
/ TOPOLOGY: linear
/ MOLECULE TYPE: Protein
/ US-08-936-165A-477
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Query Match 18.5%; Score 749; DB 4; Length 264;
Best Local Similarity 53.8%; Pred. No. 1.6e-66;
Matches 147; Conservative 39; Mismatches 75; Indels 12; Gaps 3;

QY 15 VLAHVVDKLDGTVLLYIDRLVHEVTSPOAFEGRLNAGRKRVRPDCPLATTDHNPPT 74
DB 1 VVNRHVLAIXKKGDPQLLYIDRLVHEVTSPOAFEGRLQNRKLRRPDLTFATLDHNPPT 60
QY 75 SRRLKLIASFIKDDSRTOCVTLEENVKEFGVTFGLSDRQGIYVHYIGPQGTLPPT 134
DB 61 -----DIFN-IKQINIKKQITTLQKKAIDFGVHFDWGSDEQGIYVHWGPGTGLTOPER 113
QY 135 TVVCGDSHTSTHGAFGALAFGIGTSEVEHVLATQCLITKRSKNMRIOVDGELAPGVSSKD 194
DB 114 TVVCGDSHTSTHGAFGALAFGIGTSEVEHVLATQCLITKRSKNMRIOVDGELAPGVSSKD 173
QY 195 VVLAIGIIGTAGTGAVIEFGSVIRSLSMWARSICMSIEGAGARAGVAPDEITFEY 254
DB 174 IILHLITGVDFGFGALEFTGERIKLNSMDGRWITCNMAIEGAKKGIIGPDDITFEY 233
QY 255 LKGRPLAPKIDSEMHKATQYWKUQSPGAKY 287
DB 234 VKGRPFADNF-----AKSVDMKRELYSDDGTRY 261
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RESULT 4
US-09-173-300-45
/ Sequence 45, Application US/09173300
/ Patent No. 6451581
/ GENERAL INFORMATION:
/ APPLICANT: Falco, Saverio Carl
/ APPLICANT: Hiltz, William D.
/ APPLICANT: Kinney, Anthony J.
/ APPLICANT: Cahoon, Rebecca E.
/ APPLICANT: Rafalski, J Antoni
/ TITLE OF INVENTION: PLANT BRANCHED CHAIN AMINO ACID BIOSYNTHETIC ENZYMES
/ FILE REFERENCE: BB-1126
/ CURRENT APPLICATION NUMBER: US/09/173,300
/ EARLIER FILING DATE: 1998-10-15
/ EARLIER APPLICATION NUMBER: 60/063,423
/ NUMBER OF SEQ ID NOS: 54
/ SOFTWARE: Microsoft Word Version 7.0A
/ SEQ ID NO 45
/ LENGTH: 424
/ TYPE: prt
/ ORGANISM: Methanococcus jannaschii
/ US-09-173-300-45
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Query Match 15.7%; Score 635; DB 4; Length 424;
Best Local Similarity 33.1%; Pred. No. 9.2e-55;
Matches 157; Conservative 86; Mismatches 174; Indels 58; Gaps 9;
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QY 10 TLYDKVL-QAHVVDKLDGTVLL-YIDRLVHEVTSPOAFEGRLNAGRKRVRPDCPLAT 66
DB 4 TVEKILAKASGKEVSPGDIIVANIDVAMVHDITGLTVNTLKEYIEIKVMEKIVIL 63
QY 67 TDHNVPTTSRKALXDIASFIEDSRTOCVTLEENVKEFGVTFGLSDRQGIYVHYIGPE 126
DB 64 FPHQVADSIKAEEN-----HILMRKFVYEQIKTF--YDIEGVCHQVLP 108
QY 127 QGFTLPGTVVCGDSHTSTHGAFGALAFGIGTSEVEHVLATQCLITKRSKNMRIOVDGEL 186
DB 109 KGVHAPGEVYVVGADSHTCGHGAFATGISTDMAHVATGKLMFVPEITVYINIGDL 168
QY 187 APGVSSKDVVLAIGIIGTAGTGAVIEFGSVIRSLSMWARSICMSIEGAGARAGVVA 246
DB 169 QPYVTSKDVILSIIGVGVDATYKACQFGFETVKKMSIASRMTMTMAIEMGKGTGII 228
QY 247 PDEITFEYLKGRPLAKYDSEMHKATQYWKUQSPGAKYDIDVIFDADIYVTLTWGT 306
DB 229 PDEKITQYVK-----EAMKRGTERPPEVIKGDDEAEFAVEYEIEADKIEPVFACP 280
QY 307 SPEDVVPITGVVDPETFAITEAKKADGRRLQYMLKAGTPMEDIPVDKYFISGCTNSRI 366
DB 281 NVDNV-----KQAREVAK-----PIDQYFISGCTNGRL 309
QY 367 EDLRAAAVVKGRKAPNYKSAMVVPFSGVLVKTQAEDEGLDKIFEAGFEWRAGCMCL 426
DB 310 EDLRMAIKIIEKHGIADVRYVVTASREBYLKALKEGIIIEKFLKGCVVATNPSGACM 369
QY 427 GAMPDLIAQERCASTSNRNFEGRGA-GGRTILMSVMAAAGIYVKLDVRL 480
DB 370 GSLVGLVGGEEVCSVSNRNFGRQSLAEAIYLAISPTAAACVKGELVDPRL 424

RESULT 5
US-09-173-300-36
/ Sequence 36, Application US/09173300
/ Patent No. 6451581
/ GENERAL INFORMATION:
/ APPLICANT: Falco, Saverio Carl
/ APPLICANT: Hiltz, William D.
/ APPLICANT: Kinney, Anthony J.
/ APPLICANT: Cahoon, Rebecca E.
/ APPLICANT: Rafalski, J Antoni
/ TITLE OF INVENTION: PLANT BRANCHED CHAIN AMINO ACID BIOSYNTHETIC ENZYMES
```

```
; FILE REFERENCE: BB-1126
; CURRENT APPLICATION NUMBER: US/09/173,300
; CURRENT FILING DATE: 1998-10-15
; EARLIER APPLICATION NUMBER: 60/063,423
; EARLIER FILING DATE: 1997 October 28
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Microsoft Word Version 7.0A
; SEQ ID NO 36
; LENGTH: 428
; TYPE: PRT
; ORGANISM: Zea mays
US-09-173-300-36
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Query Match 13.0%; Score 528.5; DB 4; Length 428;
Best Local Similarity 31.9%; Pred. No. 4.3e-44;
Matches 152; Conservative 65; Mismatches 165; Indels 95; Gaps 16;

QY 33 IDRLHVEHTSPQA---REGLNAGRKVRRPDCTLATTDHNVPTTSRKALKDIASFIKED 89
Db 12 IDVLMTHDVCGPGETIGIFKEFGEDAKWDRKVVIPDHYIPTSERANRV-----D 65

QY 90 DSRTCQVTLLENVKEFGVTYF-----GLSDKR-----QGIHVHVGPEQGFPLPGTTVVCGD 140
Db 66 ILRDFC--LEQNIK-----YFYDIKDLSDFRANPDYKGVCHIALAQEGHCRPGEVLLGTD 118

QY 141 SHTSTHGAFGALAFGIGTSEVHVLAATQCLITKRSKNMRIQVDGELAPGVSSKDVVLHAI 200
Db 119 SHTCNAGAFGQFATGIGNTDAGFMGTGKALLKVPPTIRFVLGDEMPPYLLAKDLILQII 178

QY 201 GIIGTAGGTGAVIEFCGVSIRSLMEARMSICNMSTEGGARAGMVAPEITFEYLGKRP 260
Db 179 GEISVSGATYKSMFVGSTVESLTMEERMTLCNMVVEAGKNGVVPADETTFKYLEGR-- 236

QY 261 APKYDSEPHKATQYWKNLQSDPGAKYDIDVFIDAKDIVPTLTWTGTSPEDEVVITGVVPD 320
Db 237 -----TSVDYQPVYSDAEARFFSDYRFDVSKLEPVV---AKPHS-----PD 274

QY 321 PETFATEAKKADGRMLQYMGKLKAGTPEMEDI PVDKVFIGSCNRSRIEDLRAAAIVVKGRK 380
Db 275 NRALARECK-----DVKIDRVYIGSGCTGKTEDEFLAAAKVFLASG 314

QY 381 KAPNVKSAMV-----VPGSLVKTQAEEGGLDKIFEEAGFEW-REAGCSMC 425
Db 315 KKVKVPTFLVPATQKWMVDVYSLVPVPSG-GKTCQO-----IFEEAGCDTPASPNCGAC 367

QY 426 LGMNPDIILAPOER---CASTSNRNFEGRQ-AGGRTHLMSPVMAAAAGIVGKLADVR 478
Db 368 LGGPRDTYARMNEPTVCVSTTNRNFPGRMGHKEGQIYVLASPYTAAASALTGYVTDPR 424

RESULT 6
US-09-173-300-38
; Sequence 38, Application US/09173300
; Patent No. 6451581
; GENERAL INFORMATION:
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Hitz, William D.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Rafalski, J. Antoni
; TITLE OF INVENTION: PLANT BRANCHED CHAIN AMINO ACID BIOSYNTHETIC ENZYMS
; FILE REFERENCE: BB-1126
; CURRENT APPLICATION NUMBER: US/09/173,300
; CURRENT FILING DATE: 1998-10-15
; EARLIER APPLICATION NUMBER: 60/063,423
; EARLIER FILING DATE: 1997 October 28
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Microsoft Word Version 7.0A
; SEQ ID NO 38
; LENGTH: 443
; TYPE: PRT
; ORGANISM: Zea mays
US-09-173-300-38
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Query Match 12.9%; Score 523.5; DB 4; Length 443;
Best Local Similarity 30.9%; Pred. No. 1.1e-43;
Matches 147; Conservative 69; Mismatches 164; Indels 95; Gaps 14;

QY 33 IDRLHVEHTSPQAFEGLR--NAGRKVRRPDCTLATTDHNVPTTSRKALKDIASFIKED 89
Db 27 VDVLMTHDVCGPAGAFDIFKEFGEDARVDRKLVIPDHYIPTSERANRV-----D 80

QY 90 DSRTCQVTLLENVKEFGVTYF-----GLSDKR-----QGIHVHVGPEQGFPLPGTTVVCGD 140
Db 81 ILRDFCA--EONIK-----YFYDIKDLSDFRANPDYKGVCHIALAQEAHCRPGEVLLGTD 133

QY 141 SHTSTHGAFGALAFGIGTSEVHVLAATQCLITKRSKNMRIQVDGELAPGVSSKDVVLHAI 200
Db 134 SHTCNAGAFGQFATGIGNTDAGFVLGTGKALLKVPPTIRFVLGDEMPPYLLAKDLILQII 193

QY 201 GIIGTAGGTGAVIEFCGVSIRSLMEARMSICNMSTEGGARAGMVAPEITFEYLGKRP 260
Db 194 GEISVSGATYKSMFVGSTVESLTMEERMTLCNMVVEAGKNGVVPADETTFKYLEG--- 250

QY 261 APKYDSEPHKATQYWKNLQSDPGAKYDIDVFIDAKDIVPTLTWTGTSPEDEVVITGVVPD 320
Db 251 -----KTSVDYBPVYSDAQARFFSDYRFDVSKLEPVVAKPHSPDNRAP----- 293

QY 321 PETFATEAKKADGRMLQYMGKLKAGTPEMEDI PVDKVFIGSCNRSRIEDLRAAAIVVKGRK 380
Db 294 -----ARECK-----DVKIDRVYIGSGCTGKTEDEFLAAAKVFLASG 329

QY 381 KAPNVKSAMV-----VPGSLVKTQAEEGGLDKIFEEAGFEW-REAGCSMC 425
Db 330 KKVKVPTFLVPATQKWMVDVYSLVPVPSG-----GKTCQIFEEAGCDTPASPNCGAC 382

QY 426 LGMNPDIILAPOER---CASTSNRNFEGRQ-AGGRTHLMSPVMAAAAGIVGKLAD 476
Db 383 LGGPRDTYARMNEPTVCVSTTNRNFPGRMGHKEGQIYVLASPYTAAASALTGYVTD 437

RESULT 7
US-08-936-165A-476
; Sequence 476, Application US/08936165A
; Patent No. 6348582
; GENERAL INFORMATION:
; APPLICANT: Black, Michael
; APPLICANT: Burnham, Martin
; APPLICANT: Hodgson, John
; APPLICANT: Knowles, David
; APPLICANT: Lonetto, Michael
; APPLICANT: Nicholas, Richard
; APPLICANT: Pratt, Julie
; APPLICANT: Reichard, Richard
; APPLICANT: Rosenberg, Martin
; APPLICANT: Ward, Judith
; TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,
; TITLE OF INVENTION: Polypeptides and Their Uses
; NUMBER OF SEQUENCES: 534
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406-0939
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/936,165A
; FILING DATE: 24-SEP-1997
; CLASSIFICATION: 536
; PRIOR APPLICATION DATA:
```

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1 APPLICATION NUMBER: 60/027,0322
2 FILING DATE: 24-SEP-1996
3 ATTORNEY/AGENT INFORMATION:
4 NAME: Gimm, Edward R
5 REGISTRATION NUMBER: 38,891
6 REFERENCE/DOCKET NUMBER: P50544
7 TELECOMMUNICATION INFORMATION:
8 TELEPHONE: 610-270-4478
9 TELEFAX: 610-270-5090
10
11 TELEFAX:
12
13 INFORMATION FOR SEQ ID NO: 476:
14
15 SEQUENCE CHARACTERISTICS:
16 LENGTH: 173 amino acids
17 TYPE: amino acid
18 STRANDEDNESS: single
19 TOPOLOGY: linear
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21 MOLECULE TYPE: Protein
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Query Match	12.2%;	Score 493;	DB 4;	Length 173;
Best Local Similarity	56.4%;	Pred. No. 3.2e-41;		
Matches 101;	Conservative 21;	Mismatches 49;	Indels 8;	Gaps 2

```

Oy      LTMGTSPEPDVPIGTGVDPDPFPAFEAKAAGRRLQYMGKAGAPMDDIPVDKFIISC 365
Db      1 VTMGTNPEMGVNFSEPPF-----EINDINDQRAYDTMGLEPQKAEIDLDGIYFLISC 53

Oy      362 TNSRIEDPRAAAAVVYGRKKAPNVKSAVVVPGSGIVTKQAEEGIDLKFEEBGFEMREAG 422
Db      54 TNAISDLIEASHIYKGNKVPNTLTAVVEQSRIYVKEAEKLGIDTTFKAGAFEMREPG 113

Oy      422 CSMGLGNMPDILIAPOERCASINRNFEESROAGGRTHTMSPVMAAAAGIVGLADVRLT 480
Db      113 CSMGLGNMPDQVEVETHCASISNRNFEESROGKGARTHTVSPMAAAAAIHGKFPVDVRY 171

```

RESULT 8  
 US-08-403-866-4  
 Sequence 4, Application US/08403866  
 Patent No. 5643779  
 GENERAL INFORMATION:  
 APPLICANT: Ehrlich, Stanislaw  
 APPLICANT: Godon, Jean-Jacques  
 APPLICANT: Renault, Pierre  
 TITLE OF INVENTION: Nucleic acid coding for an alpha-acetolactate  
 TITLE OF INVENTION: synthase from Lactococcus and its applications  
 NUMBER OF SEQUENCES: 16  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/403,866  
 FILING DATE:  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Goldman, Michael L.  
 REGISTRATION NUMBER: 30, 727  
 REFERENCE/DOCKET NUMBER: 20747/30  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (716) 263-1600  
 TELEFAX: (716) 263-1487  
 TELEX: 978450 (MUT)  
 INFORMATION FOR SEQ ID NO: 4:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 191 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 HYPOTHEICAL: NO  
 ORIGINAL SOURCE:  
 ORGANISM: Lactococcus lactis subsp. lactis

INDIVIDUAL ISOLATE: LEUD  
US-08-403-866-4

Query Match	11.9%;	Score 482.5;	DB 1;	Length 191;
Best Local Similarity	-49.5%;	Pred. No. 4.3e-40;		
Matches 96;	Conservative 38;	Mismatches 55;	Indels 5;	Gaps 3;

[illegible]

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QY 720 TMQMEDKIAEFK 733
    | : | : | : |
Db 176 TLQYEEAISAYEQK 189
```

US-08817-798-2  
 Sequence 2, Application US/08867798  
 Patent No. 5923556  
 GENERAL INFORMATION:  
 APPLICANT: Mayeux, Richard  
 APPLICANT: Graziano, Joseph H.  
 APPLICANT: Freyer, Greg  
 TITLE OF INVENTION: PARKINSON'S DISEASE TESTS  
 NUMBER OF SEQUENCES: 38  
 CORRESPONDENCE ADDRESS:

Query Match	11.9%	Score 481.5	DB 2	Length 780
Best Local Similarity	26.9%	Pred. No. 6.2e-39		
Matches 212, Conservative	102	Mismatches 324	Indels 151	Gaps 34

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QY      8 PQLLYDKVLAQAVD-----EKLDTGVLVLYIDRHLVHEVTSPOAFEGLRVAG-RKVRRP 60
      |||:::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
DB     62 PLTLSEKIVYGHLDPPASQETERGKSYLRLRPRVAVQDATAQVAMLQFISSGLSKVAVP 121

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; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (93)
US-09-173-300-42

Query Match      5.1%; Score 208.5; DB 4; Length 195;
Best Local Similarity 28.5%; Pred. No. 1.2e-12;
Matches 65; Conservative 26; Mismatches 80; Indels 57; Gaps 8;

QY 271 KATQYKMLQSDPGAKYDIDVFIDAKDIVPTLTWGTSPEDVVPITGVVDPDETATEAKK 330
Db |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
4 KTSLPYEPVYSDQARFLAEYRFDVSKLEPVV---AKPHS-----PDNRALARECK- 51
QY 331 ADGRRMLQVMGLKAGTPMEDIPVDKVFISGCTNSRIEDLRAAAAVVVKRKKAPNVKSAMV 390
Db |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
52 -----DVKIDRVVIGSCTGSKTDFMAAAKVFLASGQVKVPTFLV 92
QY 391 -----VPGSLVKTQAEEGLDKIFEEAGFEW-REAGCSMCLGMPDILAP 435
Db |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
93 XATQKVMMDLYSLPVGSG-----GKTCQIFEEVGCOTPASPCGACILGGPKDTYAR 145
QY 436 QER---CASTSNENFEGRQG-AGRTHLMSPVMAAAGIVGKLADVRK 479
Db |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
146 MNEPKVCVSTNRRNFGRMHGKQIYLASPYTAASALTGYVTDPRE 193

RESULT 16
US-09-173-300-47
; Sequence 47, Application US/09173300
; Patent No. 6451581
; GENERAL INFORMATION:
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Hitz, William D.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Rafalski, J. Antoni
; TITLE OF INVENTION: PLANT BRANCHED CHAIN AMINO ACID BIOSYNTHETIC ENZYMES
; FILE REFERENCE: BB-1126
; CURRENT FILING DATE: 1998-10-15
; EARLIER APPLICATION NUMBER: 60/063,423
; EARLIER FILING DATE: 1997 October 28
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Microsoft Word Version 7.0A
; SEQ ID NO 51
; LENGTH: 263
; TYPE: PRT
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (4)
US-09-173-300-51

Query Match      5.2%; Score 209; DB 4; Length 263;
Best Local Similarity 31.9%; Pred. No. 1.8e-12;
Matches 58; Conservative 29; Mismatches 61; Indels 34; Gaps 7;

QY 526 PHNTSASVGTSGALPKFTILKGIAPLEKANVDTDAIIPKQFLKTY-----KRTG-- 576
Db |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
72 PRAQSAASPSASPHGLCVVG-----DNIDTQIIPAEYLTLPVSPKPFDEYKLGSY 124
QY 577 --LGNALFYEMPFNEDGTBKSDFVLNKEPYRKASILVCTGANFGCGSSREHAPWALNDFG 634
Db |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
125 ALIGLPATVATRFIEPGEIKTYA-----IVIGGANFGCGSSREHAPVALGASG 173
QY 635 IRSVTAPSPADTFPNNSFKNGMLPIPKDQAEIAAARAGKETEVDL-PNOLIKNAT 693
Db |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
174 AARVVAESYARIFFRNSVATGEV-YPLESEGR---LCEECTTGDVVTVIELGESRLINHHT 229
QY 694 GE 695
Db |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
230 GK 231

RESULT 15
US-09-173-300-42
; Sequence 42, Application US/09173300
; Patent No. 6451581
; GENERAL INFORMATION:
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Hitz, William D.
; APPLICANT: Kinney, Anthony J.
; APPLICANT: Cahoon, Rebecca E.
; APPLICANT: Rafalski, J. Antoni
; TITLE OF INVENTION: PLANT BRANCHED CHAIN AMINO ACID BIOSYNTHETIC ENZYMES
; FILE REFERENCE: BB-1126
; CURRENT APPLICATION NUMBER: US/09/173,300
; CURRENT FILING DATE: 1998-10-15
; EARLIER APPLICATION NUMBER: 60/063,423
; EARLIER FILING DATE: 1997 October 28
; NUMBER OF SEQ ID NOS: 54
; SOFTWARE: Microsoft Word Version 7.0A
; SEQ ID NO 42
; LENGTH: 195
; TYPE: PRT
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[illegible][illegible]

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Db 975 VTAKTVIDAVNKSQRVTGEGAT-----AETG-----ATAVNAGNAETVTSGT-- 1017
QY 151 ALAFGIGTSEVHLVATQCLTKRSKNMIRIQVDGELAPGV---SSKDVVLHAIGIIGTAG 207
Db 1018 SVNFKNNG-----ATTATVSKDNGNINVKYDVNNGDGLKIGDDKKIVADTTTLTVTGG 1070
QY 208 -----GTGAV-----IFBCGSVIRLSNMEARM-SICNMSIEGGARAGVAPDEITF 252
Db 1071 KVSVPAGANSNNKKLVNAEGLATALNNLSWTAKADKYADGESSEGTQDQEVKAGDKVTF 1130
QY 253 EYLKGRPLAPKYDSEWHKATQYWKNLQSDPGAKYDIDVDFIDAKDIVPTLTWGTSPEDVV 312
Db 1131 -----KAGNLUVKQSEKDFYLSQ-----DTLTGLTS-----I 1159
QY 313 PITGVVPPETFAEAKKADRRMLQYMLKAGTQMED---IPVDKVFIGSCTNSRIIDL 369
Db 1160 TLGGTANGRNDTGTVINK-DGLTITLANGAAAGTDASNGNTISVTKDGI-SAGNKEIINV 1217
QY 370 RAAAVVVKGRKKA-----PNVKSAMVV-----PGSLVKTOAEEDGLDKIFEEAGF 415
Db 1218 KSALKTKYKDTQNTAGATQPAANTAFAVAKQDLVLTLPKATGAAGNAGADAKAPDTTAAATVG- 1276
QY 416 EWEAGGSCMLGNPDILAPQERCASTSNRN---FEGRQGA-----GGRTHLMSPVMA 465
Db 1277 DLRLGLVLSAKKTADTQDEKFEHFAAVKNANEVEFVGKNGATVSAKTDNNNGKHVTTIDVA 1336
QY 466 AAGAGIVGKLAD-VRLKTDYKASPHIAAYQKSTVTKPHVDERINQDAHEKDIADIPEDNN 524
Db 1337 EA-----KVGDLKEDTDGKI-----KLKVDNTDGNLLTVDATKGASVA--KGEFN 1381
QY 525 GPTNTSASVGTAGLPKFTILKG-----IAAPLEKANVDDTAIIPKQPLKTIKRTGLGNA 580
Db 1382 AVTTDTAATQGTNANERGVVVGKSGNGATATETDKKKVATVGDVAK-----AINDA 1432
QY 581 LFYEMRFNEDGT---EKSDPVLNKEPYRKASILVCTGANFGCGSSREHAPWAL-NDPFI 635
Db 1433 ATPVKVENDSATIDSDPTDGDANDALKAGDTLTLLKAGNLUKVRDGNKITFALANDLSV 1492
QY 636 RSV-----IAPSFADIFFN----- 649
Db 1493 KSATVSDKLSLGTNGNKNVNTSDTKGLNFAKDSKTGDANIHLNGIASTLTDLLNSGAT 1552
QY 650 -NSFKNGMLPIPKDQAOIEAIAAARAGAEIEVDLPNQLIKNATGETICTFEVEEERKH 708
Db 1553 TNLGGNGITNEKRAASVKDVLNAGNVNVRGVKSPASANNQVNTI--DFVATYDVF--- 1607
QY 709 CLVNG-LDDIGLTQWQEDKIAEPEAKMTRTPMLDGTGYLKRKGQGGKL 756
Db 1608 --VSGDKDTSVTVESKDNKGRTEVKIGAKTSVI-----KDHNGKL 1646
```

RESULT 21

```
US-08-409-995-4
; Sequence 4, Application US/08409995
; Patent No. 5646259
; GENERAL INFORMATION:
; APPLICANT: Barenkamp, Stephen I.
; APPLICANT: St. Gene III, Joseph W.
; TITLE OF INVENTION: Haemophilus Adhesion Proteins
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr, Hobbach, Test, Albritton & Herbert
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: CA
; COUNTRY: USA
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/08/409,995
; FILING DATE: 24-MAR-1995
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Silva, Robin M.
; REGISTRATION NUMBER: 38,304
; REFERENCE/DOCKET NUMBER: A-61053/RPT
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1912 amino acids
; TYPE: amino acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; US-08-409-995-4

Query Match 3.1%; Score 124.5; DB 1; Length 1912;
Best Local Similarity 19.9%; Pred. No. 0.017;
Matches 163; Conservative 100; Mismatches 302; Indels 255; Gaps 37;

QY 41 VTSPQAFGLRNAGKRRPDCCTLATTDHNVPTTSKALKDI--ASFIKEDDSR---TQC 95
Db 919 VTVTQKADG---KGADVKGIAKTSVIKDHNGKLTGKDLKDANNGATVSEDDCKDGTGTL 975
QY 96 VTLEB-----NVKEFGVTYFGLSDXKRGIVHVGPEQGTLPQTTVVCGDSHTSHGAPG 150
Db 976 VTAKTVIDAVNKSQRVTGEGAT-----AETG-----ATAVNAGNAETVTSGT-- 1018
QY 151 ALAFGIGTSEVHLVATQCLTKRSKNMIRIQVDGELAPGV---SSKDVVLHAIGIIGTAG 207
Db 1019 SVNFKNNG-----ATTATVSKDNGNINVKYDVNNGDGLKIGDDKKIVADTTTLTVTGG 1071
QY 208 -----GTGAV-----IFBCGSVIRLSNMEARM-SICNMSIEGGARAGVAPDEITF 252
Db 1072 KVSVPAGANSNNKKLVNAEGLATALNNLSWTAKADKYADGESSEGTQDQEVKAGDKVTF 1131
QY 253 EYLKGRPLAPKYDSEWHKATQYWKNLQSDPGAKYDIDVDFIDAKDIVPTLTWGTSPEDVV 312
Db 1132 -----KAGNLUVKQSEKDFYLSQ-----DTLTGLTS-----I 1160
QY 313 PITGVVPPETFAEAKKADRRMLQYMLKAGTQMED---IPVDKVFIGSCTNSRIEDL 369
Db 1161 TLGGTANGRNDTGTVINK-DGLTITLANGAAAGTDASNGNTISVTKDGI-SAGNKEIINV 1210
QY 370 RAAAVVVKGRKKAAPNVKSAMVVVGSLVKTOAE-----EEGLDKIFEEAGFEWREAGCSM 424
Db 1211 -----GNKEITNVKSAL-----KTYKDTQNTADTQDKEFH----- 1241
QY 425 CLGMNPDLAPQERCASTSNRN---FEGRQGA-----GGRTHLMSPVMAAAGIVGKL 474
Db 1242 -----AAVKNANEVEFVGKNGATVSAKTDNNNGKHVTTIDVAE-----KV 1281
QY 475 AD-VRLKTDYKASPHIAAYQKSTVTKPHVDERINQDAHEKDIADIPEDNNGPHTNTSAS 533
Db 1282 GDGLEKOTDGI-----KLKVDNTDGNLLTVDATKGASVA--KGEFNATVTDATTA 1331
QY 534 VGTSAGLPKFTILKG-----IAAPLEKANVDDTAIIPKQPLKTIKRTGLGNALFYEMRFE 589
Db 1332 QGTNANERGVVVGKSGNGATATETDKKKVATVGDVAK-----AINDAATFVKVEND 1382
QY 590 DGT-----EKSDPVLNKEPYRKASILVCTGANFGCGSSREHAPWAL-NDPFI RSV----- 638
Db 1383 DSATIDSDPTDGDANDALKAGDTLTLLKAGNLUKVRDGNKITFALANDLSVKSATVSDKL 1442
QY 639 -----IAPSFADIFFN-----NSFKNGML 657
Db 1443 SLGTNGNKNVNTSDTKGLNFAKDSKTGDANIHLNGIASTLTDLLNSGATNLGGNGIT 1502
QY 658 PIPIKDOAQIEAIAAARAGAEIEVDLPNQLIKNATGETICTFEVEEERKHCLVNG-LDD 716
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Db 977 VTAKTVIDAVNKGSRVTEGAT-----AETG-----ATAVNAGNAETVTSGT-- 1019
QY 151 ALAFGIGTSEVHLATQCLITKRSKNMRIQVDGELAPGV---SSKDVVLHAIGIITAG 207
Db 1020 SVNFKNGN-----ATTATVSKDNGNINVKYDVNVGDLGKIGDDKKIVADTTTLTVTGG 1072
QY 208 -----GTGAV-----IEFCGSVIRLSMEARM-SICNMSIEGGARAGVAPDEITF 252
Db 1073 KVSVPAGANSVNNKKLVNAEGLATALNNLSWTAKADKYADGESEGETDQEVKAGDKVTF 1132
QY 253 EYLKGRPLAPKYDSPWHKATQYWKNLQSDPGAKYDIDVFIDAKDI VPTLTWGTSPEDVV 312
Db 1133 -----KAGKNLKVQSEKDFYSLQ-----DTLTGLTS-----I 1161
QY 313 PITGVVPDPETFAEAKKADGRRLQYMLGKAGTPMED---IPVDKVFIGSCTNSRIEDL 369
Db 1162 TLGGTANGRNDGTGVINK-DGLTITLANGAAAGTDASNGNTISVTKDGLISA----- 1211
QY 370 RAAAVVVKGRKAPNVKAMVVPVSGLVKTQAE-----EGLDKIFEAGFEWREAGCSM 424
Db 1212 -----GNKEITNVKSAL-----KTYKDTQNTADETQDKKEFH----- 1242
QY 425 CLGMNPDILAPOERCASSTNRN---PEGROGA-----GGRTHLMSPVMAAAAGIVGKL 474
Db 1243 -----AAVKNAEVEFVGKNGATVSAKTDNNGKHTVTIDVAEA-----KV 1282
QY 475 AD-VRKLTIDYKASPHIAAYQKSTVTKPHVDERINQDAHEKDIADIPEDNNGPHTNTSAS 533
Db 1283 GDGLEKDTDGKI-----KLKVDNTDGNLLTVDATKASVA--KGEBNAVTTDTATTA 1332
QY 534 VGTAGLPKFTILKG-----IAAPLEKANVDTDAIIPKQFLKTIKRTGLGNALFYEMRFNE 589
Db 1333 QGTNANERGVVVKSGNGATATETDKKVA TVGDVAK-----AINDAATFVKVEND 1383
QY 590 DGT-----EKSDPVLNKEPYRKASILVCTGANFGCGSSREHAPWAL-NDFGIRSV----- 638
Db 1384 DSATIDDSPTDDGANDALKAGDGTTLKAGKNLKVKRDGKNITPALANDLSVKSATVSDKL 1443
QY 639 -----IAPSFADIFEN-----IAPSFADIFEN-----NSFKNGML 657
Db 1444 SLGTNGKNVNTISDTKGLNFAKDSKTGDDANIHLNGIASLTTLTLLNSGATTNLLGNGIT 1503
QY 658 PIPKIDQAOIEAIEAARAGKIEVDLPNOLIKNATGETICTPEVEBEFRKHCLVNG-LDD 716
Db 1504 DNEKRAASVKDVLNAGNVGVKPASANNQVENI--DFVATYDVTDF-----VSGDKDT 1556
QY 717 IGLTWOMEDIABFEAKMTRETPWLDTGTYLKRKGGGKGL 756
Db 1557 TSVTVESKDNKRTEVKIGAKTSVI-----KDHNGKL 1588
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RESULT 24
US-08-913-942-4
; Sequence 4, Application US/08913942
; Patent No. 6200578
; GENERAL INFORMATION:
; APPLICANT: St. Geme, Joseph
; APPLICANT: Barenkamp, Stephen J.
; TITLE OF INVENTION: HAEMOPHILUS ADHESION PROTEINS
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Flehr Hohbach Test Albritton & Herbert LLP
; STREET: Four Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: United States
; ZIP: 94111-4187
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/913,942
; FILING DATE: 29-DEC-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/409,995
; FILING DATE: 24-MAR-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/4031
; FILING DATE: 22-MAR-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Vance, Dolly A.
; REGISTRATION NUMBER: 39,054
; REFERENCE/DOCKET NUMBER: A-61053-1/RFT/RMS/DAV
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 781-1989
; TELEFAX: (415) 398-3249
; TELEX: 910 277299
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2353 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-913-942-4

Query Match 3.0%; Score 122.5; DB 4; Length 2353;
Best Local Similarity 19.9%; Pred. No. 0.038;
Matches 163; Conservative 100; Mismatches 302; Indels 255; Gaps 37;

QY 41 VTSQPAPEGLRNAGRKVRDPDCTLATTDHNVPTTSRKALKDI--ASFKEKDDSR---TQC 95
Db 920 VTTVTKADG---KGADVKGIAKTSVVKDHNGKLFSGDKLDKANNNGATVSEDDGDKDTGTL 976
QY 96 VTLEE-----NVKEFGVTFEGLSDKROGIVHVIPEQOFTLPGTTVCGDSHTSTHGAFG 150
Db 977 VTAKTVIDAVNKGSRVTEGAT-----AETG-----ATAVNAGNAETVTSGT-- 1019
QY 151 ALAFGIGTSEVHLATQCLITKRSKNMRIQVDGELAPGV---SSKDVVLHAIGIITAG 207
Db 1020 SVNFKNGN-----ATTATVSKDNGNINVKYDVNVGDLGKIGDDKKIVADTTTLTVTGG 1072
QY 208 -----GTGAV-----IEFCGSVIRLSMEARM-SICNMSIEGGARAGVAPDEITF 252
Db 1073 KVSVPAGANSVNNKKLVNAEGLATALNNLSWTAKADKYADGESEGETDQEVKAGDKVTF 1132
QY 253 EYLKGRPLAPKYDSPWHKATQYWKNLQSDPGAKYDIDVFIDAKDI VPTLTWGTSPEDVV 312
Db 1133 -----KAGKNLKVQSEKDFYSLQ-----DTLTGLTS-----I 1161
QY 313 PITGVVPDPETFAEAKKADGRRLQYMLGKAGTPMED---IPVDKVFIGSCTNSRIEDL 369
Db 1162 TLGGTANGRNDGTGVINK-DGLTITLANGAAAGTDASNGNTISVTKDGLISA----- 1211
QY 370 RAAAVVVKGRKAPNVKAMVVPVSGLVKTQAE-----EGLDKIFEAGFEWREAGCSM 424
Db 1212 -----GNKEITNVKSAL-----KTYKDTQNTADETQDKKEFH----- 1242
QY 425 CLGMNPDILAPOERCASSTNRN---PEGROGA-----GGRTHLMSPVMAAAAGIVGKL 474
Db 1243 -----AAVKNAEVEFVGKNGATVSAKTDNNGKHTVTIDVAEA-----KV 1282
QY 475 AD-VRKLTIDYKASPHIAAYQKSTVTKPHVDERINQDAHEKDIADIPEDNNGPHTNTSAS 533
Db 1283 GDGLEKDTDGKI-----KLKVDNTDGNLLTVDATKASVA--KGEBNAVTTDTATTA 1332
QY 534 VGTAGLPKFTILKG-----IAAPLEKANVDTDAIIPKQFLKTIKRTGLGNALFYEMRFNE 589
Db 1333 QGTNANERGVVVKSGNGATATETDKKVA TVGDVAK-----AINDAATFVKVEND 1383
QY 590 DGT-----EKSDPVLNKEPYRKASILVCTGANFGCGSSREHAPWAL-NDFGIRSV----- 638
Db 1384 DSATIDDSPTDDGANDALKAGDGTTLKAGKNLKVKRDGKNITPALANDLSVKSATVSDKL 1443
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Qy 639 -----IAPSFADIFFN-----NSFKNGML 657
Db 1444 SLGTNGKNVITSDTKGLNPAKDSKTGDDANIHLNGIASLTLDTLNLSGATNLGNGIT 1503
Qy 658 PIRIKDQAOIEAIAEERAKKEIEVDLPNOLIKNATGETICTFEVEEPRKCLVNG-LDD 716
Db 1504 DNEKKRAASVKDVLNAGMNVGVKPPASANNQVENI--DFVATYDVTDF-----VSGDKDT 1556
Qy 717 IGLTMQMEDKIAEFKAKMTRETPWLDGTGLKRGQGGKL 756
Db 1557 TSVTVESKDNKRTVEYKIGAKTSVI-----KDHNGKL 1588

RESULT 25
US-09-669-974-33
; Sequence 33, Application US/09669974
; Patent No. 6333173
; GENERAL INFORMATION:
; APPLICANT: PEAK, Ian Richard Anselm
; APPLICANT: JENNINGS, Michael Paul
; APPLICANT: MOXON, E. Richard
; TITLE OF INVENTION: NOVEL SURFACE ANTIGEN
; FILE REFERENCE: 065064/0128
; CURRENT APPLICATION NUMBER: US/09/669,974
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US 09/377,155
; PRIOR FILING DATE: 1999-08-19
; PRIOR APPLICATION NUMBER: PCT/AU96/01031
; PRIOR FILING DATE: 1998-12-14
; PRIOR APPLICATION NUMBER: GB 9726398.2
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 33
; LENGTH: 2353
; TYPE: PRT
; ORGANISM: Haemophilus influenzae
US-09-669-974-33

Query Match 3.0%; Score 122.5; DB 4; Length 2353;
Best Local Similarity 19.9%; Pred. No. 0.038;
Matches 163; Conservative 100; Mismatches 302; Indels 255; Gaps 37;

Qy 41 VTSPOAFEGRLNAGRKRRPDCCTLATTDHNVPTSRKALKDI--ASFKEDDSR---TQC 95
Db 920 VTYTQKADG---KGADVKIAGKTSIVIKDHNGKLPTGKDLKANNGATVSEDDGKDTGTL 976
Qy 96 VTLAE-----NVKEFGVTVYFGLSDKROGIVHVGPEOGFTLPGTTVCCGDSHTSTHGAFG 150
Db 977 VFAKTVIDAVNKSQMRVTGEGAT-----AETG---ATAVNAGNAETVTSGT-- 1019
Qy 151 ALAFGIGTSEVENHLATQCLITKRSKMRIOVDGELAPGV---SSKDVVLAHIGIITAG 207
Db 1020 SVNFKNGN-----ATTATVSKDNGNINVKYDVNVGDLKIGDDKKIADTTTLTLVTGG 1072
Qy 208 -----GTGAV-----TFPGSVIRLSMEARM--SICNMSIEGAPAGWAPDEITF 252
Db 1073 KVSVPAGANSVNNKKULVNAEGLATALNLSWTAKADYADGESSEGTDDQEVKADKYTF 1132
Qy 253 EYLKGRPLAPKYSPEWHKATQYWKNLQSDPAKYDIDVFIDAKDIVPTLTWGTSPEDVV 312
Db 1133 -----KAGKNLKVQSEKDFYSLQ-----DTLTGLTS-----I 1161
Qy 313 PITGVVDEPETFATEAKKADRRMLQYWGCLKAGTMEB---IPVDKVFISGCTNSRIEDL 369
Db 1162 TLGGTANGRNDGTGVINK-DGLTTLTLAGAAAGTASNGNTISVTKDGISA----- 1211
Qy 370 RAAAAVVGKRRKAPNVKSAWVPVSGLVKTOAE-----EEGLDKIFEEAGFEWRBAGCSM 424
Db 1212 -----GKKEITNVKSAL-----KTYKDTQNTADFTQDKFEH----- 1242
Qy 425 CLGNPDIILAPQERCASTSNEN---FEGRQGA-----GGRTHLMSPVMAAAAGIVGKL 474
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Db 1243 -----AAVKNANEVEFVGXNGATVSAKTDNNGHVTVTIDVAEA-----KV 1282
Qy 475 AD-VKRLTDYKASPHIAAYOKSTVTPKPHYDERINQDAHEKDIADIPEDNNGPHNTNSAS 533
Db 1283 GDLGKEDTDGKI-----KLKVDNTDGNLLTVDATKASVA--KGEFNAYTTDAITTA 1332
Qy 534 VQTSAGLPKFTILKG---IAAPLEKANYPTDPAIIPKQFLKTIKRTGLGNALFYEMRNE 589
Db 1333 QGTNANBERGKVVVKGNGATATETDDKKVATVGDVAK-----AINDAATFVKEVD 1383
Qy 590 DGT-----EKSDVVLNKEPRKASIIIVCTGANFEGCGSSREHAPAL--NDPGIRSV----- 638
Db 1384 DSATIDDSPTDGGANDALKAQDTLTLKAGKNLKVKKDGNKITFALANDLSVKSATVSDKL 1443
Qy 639 -----IAPSFADIFFN-----NSFKNGML 657
Db 1444 SLGTNGKNVITSDTKGLNPAKDSKTGDDANIHLNGIASLTLDTLNLSGATNLGNGIT 1503
Qy 658 PIRIKDQAOIEAIAEERAKKEIEVDLPNOLIKNATGETICTFEVEEPRKCLVNG-LDD 716
Db 1504 DNEKKRAASVKDVLNAGMNVGVKPPASANNQVENI--DFVATYDVTDF-----VSGDKDT 1556
Qy 717 IGLTMQMEDKIAEFKAKMTRETPWLDGTGLKRGQGGKL 756
Db 1557 TSVTVESKDNKRTVEYKIGAKTSVI-----KDHNGKL 1588
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Search completed: March 17, 2003, 08:51:19  
Job time : 39 secs

